

ABSTRACT OF THE DISCLOSURE

A duty ratio control device varies a ratio between an ON-time and an OFF-time in one cycle to control an amount of electric current supplied to an electric actuator. When a large amount of electric current is supplied to the electric actuator, a time of the cycle becomes longer than a case in which a small amount of electric current is supplied. The time of the cycle is continuously extended as the amount of electric current supplied to the electric actuator increases. The time of the cycle is extended in stages as the amount of electric current supplied to the electric actuator increases. The electric actuator displaces the position of a valve body of a valve in accordance with the amount of supplied electric current.